

## CLAIM AMENDMENTS

1 -- 15. (canceled)

1           16. (new) In combination with a treatment head of a  
2 tool machine and a member angularly positionable relative to the  
3 treatment head, an angularly indexable mount comprising:  
4           a first coupling having  
5                an outer ring element centered on an axis and having  
6                an axially directed outer array of a  
7                predetermined number of outer teeth and  
8           an inner element surrounded by the outer element and  
9                angularly displaceable relative thereto about  
10           the axis, the inner element having an inner  
11           array of a predetermined number of inner teeth  
12           directed axially in the same direction as the  
13           teeth of the outer ring element, one of the  
14           elements being connected to the treatment head  
15           and the other of the elements being connected  
16           to the member, the number of outer teeth of the  
17           outer element varying by more than one from the  
18           number of inner teeth of the inner element;  
19           a second coupling centered on the axis and having

20 an annular outer array of outer teeth engageable  
21 axially with and complementary to the array of  
22 outer teeth of the first coupling and  
23 an inner array of inner teeth engageable axially  
24 with and complementary to the array of inner  
25 teeth of the first coupling, the arrays of the  
26 second coupling being fixed angularly relative  
27 to each other, the number of teeth of the  
28 second-coupling outer array varying by more  
29 than one from the number of teeth of the  
30 second-coupling inner array; and

31 means for shifting the couplings relative to each other  
32 between a disengaged position with the teeth of the first coupling  
33 out of engagement with the teeth of the second coupling and a work  
34 position with the outer teeth of the first and second couplings  
35 elements meshing and the inner teeth of the first and second  
36 couplings meshing such that a minimum resolution is produced from a  
37 difference between difference of more than one tooth of the outer  
38 and inner teeth of the first coupling.

1 17. (new) The mount defined in claim 16 wherein the  
2 teeth are uniformly angularly distributed in the respective arrays.

1 18. (new) The mount defined in claim 16 wherein the  
2 means can displace second coupling with respect to the first

3 coupling by an amount proportional to the relative displacement of  
4 the two elements of the first coupling on change of relative  
5 position of the machine and tool head attached to the first-  
6 coupling elements.

1 19. (new) In combination with a treatment head of a  
2 tool machine and a member angularly positionable relative to the  
3 treatment head, an angularly indexable mount comprising:

4 a first coupling having first and second elements  
5 displaceable relative to each other, each formed with a respective  
6 array of a respective predetermined number of teeth, and  
7 respectively connected to the member and the treatment head, the  
8 number of teeth of the first-coupling first element varying by more  
9 than one from the number of teeth of the first-coupling second  
10 element;

11 a second coupling having first and second elements  
12 engageable with the first and second elements of the first  
13 coupling, fixed relative to each other and each formed with a  
14 respective array of a respective predetermined number of teeth, the  
15 number of teeth of the second-coupling first element varying by  
16 more than one from the number of teeth of the second-coupling  
17 second element; and

18 means for shifting the couplings relative to each other  
19 between a disengaged position with the teeth of the first coupling  
20 out of engagement with the teeth of the second coupling and a work

21 position with the teeth of the first elements meshing and the teeth  
22 of the second elements meshing such that a minimum resolution is  
23 produced from a difference between a pitch of more than one tooth  
24 of the first toothed element of the first coupling and a pitch of  
25 more than one tooth of the second toothed element of the first  
26 coupling.